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41 Pages

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June 1963

PHOTOGRAPHIC INTERPRETATION REPORT

OAK - PART II
MISSION 9054
13 - 16 JUNE 1963



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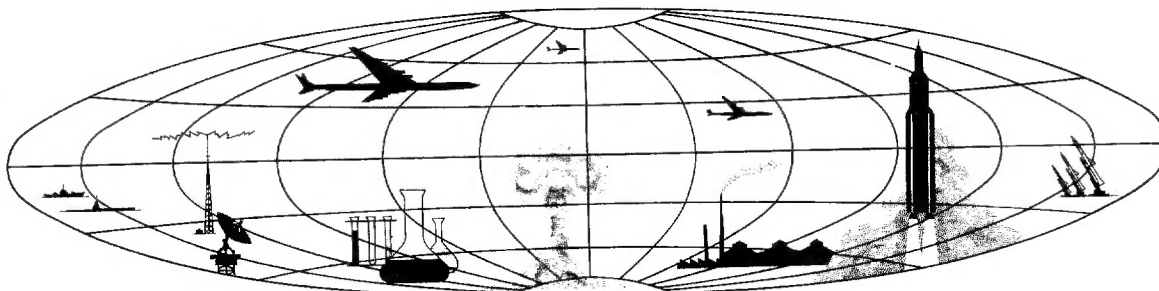
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OAK - PART II

MISSION 9054

PREFACE

THIS IS THE SECOND OF AN ESTIMATED THREE DAILY OAK REPORTS BASED ON MISSION 9054 AND DEALING WITH THE HIGHEST-PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 1500 HOURS, 21 JUNE 1963 TO 1500 HOURS, 22 JUNE 1963, PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS NOT OBSERVED OR NOT COVERED BY MISSION 9054 WILL BE LISTED IN THE FINAL OAK REPORT ON THIS MISSION.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT, AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. ALL TARGETS IN THIS REPORT ARE LOCATED IN THE USSR UNLESS OTHERWISE INDICATED.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A PRECEDING FRAME NUMBERS INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESES AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS KH-4 (1) APR 62.

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY FROM MISSION 9054 IS BEING ACCOMPLISHED IN A SHORT TIME AND OFTEN WITHOUT THE AID OF PRECISE ANALYTICAL AND MENSURAL TECHNIQUES COMMONLY EMPLOYED IN DETAILED PHOTOGRAPHIC ANALYSIS. CONSEQUENTLY, ALTHOUGH THE INFORMATION PRESENTED HEREIN IS ESSENTIALLY ACCURATE, ADDITIONAL DETAILED ANALYSIS MAY SOMEWHAT ALTER PORTIONS OF THE INFORMATION.

25X6

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HIGHLIGHTS

- 25X1A 1. SVOBODNYI ICBM LAUNCH COMPLEX [REDACTED]
A NEW LAUNCH AREA (E), A TYPE II SITE, HAS BEEN IDENTIFIED 5 NM SW OF THE COMPLEX SUPPORT FACILITY. IT IS IN A MID-STAGE OF CONSTRUCTION.
- 25X1A 2. PERM ICBM LAUNCH COMPLEX [REDACTED]
THREE NEW LAUNCH AREAS (D, E, AND F), UNDER CONSTRUCTION HAVE BEEN IDENTIFIED. LAUNCH AREA D, A TYPE II SITE, IS LOCATED APPROXIMATELY 10 NM WNW OF THE COMPLEX SUPPORT FACILITY. LAUNCH AREA E, ALSO A TYPE II SITE, IS LOCATED APPROXIMATELY 16 NM WEST OF THE COMPLEX SUPPORT FACILITY, WHILE LAUNCH AREA F, A TYPE III SITE, IS LOCATED ABOUT 8 NM WEST OF THE SUPPORT FACILITY.
- 25X1A 3. DLOVYANNAYA ICBM LAUNCH COMPLEX [REDACTED]
A NEW LAUNCH AREA HAS BEEN IDENTIFIED APPROXIMATELY 2.8 NM NE OF LAUNCH AREA A. IT IS A TYPE III SITE, UNDER CONSTRUCTION, AND IS DESIGNATED LAUNCH AREA B.
- 25X1A 4. VAINODE HARDENED/IRBM LAUNCH SITE [REDACTED]
THIS SITE IS NOW CONFIRMED AS A HARDENED IRBM LAUNCH SITE.

STATUS OF COMOR TARGET READOUT

SIXTY ONE COMOR TARGETS WERE OBSERVED IN THE CURRENT REPORTING PERIOD AND ARE COVERED BY THIS REPORT. THIS MAKES A TOTAL OF 101 TARGETS REPORTED THUS FAR FROM MISSION 9054.

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25X1A

MISSILES

[REDACTED] VERKHNYAYA SALDA ICBM LAUNCH COMPLEX 5802N 06023E

COMPLEX IS PARTIALLY COVERED BY HAZY PHOTOGRAPHY. OBLIQUITY AND SMALL SCALE LIMIT INTERPRETATION OF VISIBLE ELEMENTS OF THE COMPLEX. HOWEVER, IT CAN BE DETERMINED THAT CONSTRUCTION IS CONTINUING AT LAUNCH AREA H.

25X1D

THERE APPEARS TO BE NO APPARENT CHANGE SINCE [REDACTED]

25X1D

[REDACTED] AT LAUNCH AREAS A, B, C, AND COMPLEX SUPPORT FACILITY.

25X9

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON PASS 55D ARE AS FOLLOWS --

25X1D

LAUNCH AREA A

LAUNCH AREA B

25X1D

LAUNCH AREA C

LAUNCH AREA H

COMPLEX SUPPORT FACILITY FRAME

25X1D

25X1A

[REDACTED] TYURA TAM MISSILE TEST CENTER 4550N 06318E

25X1D

[REDACTED] PROVIDES GOOD QUALITY, PARTIAL PHOTOGRAPHIC COVERAGE OF THE TYURA TAM MISSILE TEST CENTER, HOWEVER, INTERPRETATION IS LIMITED BY OBLIQUITY AND SMALL SCALE. LAUNCH COMPLEX D IS NOT COVERED, AND POOR IMAGE QUALITY PRECLUDES INTERPRETATION OF LAUNCH COMPLEXES C AND H. CONTINUED EXPANSION AT THE TEST CENTER INCLUDES A NEW, ROAD-SERVED, UNIDENTIFIED SECURED AREA WEST OF LAUNCH COMPLEX G, A NEW RAIL AND ROAD-SERVED AREA OF UNIDENTIFIED CONSTRUCTION EAST OF LAUNCH COMPLEX G AND A NEW RAIL AND ROAD-SERVED AREA OF UNIDENTIFIED ACTIVITY BETWEEN LAUNCH COMPLEXES A AND E.

25X1D

LAUNCH COMPLEX A -- NO APPARENT CHANGE SINCE [REDACTED]

25X1D

25X1D

LAUNCH COMPLEX B -- THE ONLY CHANGE OBSERVED AT THIS COMPLEX SINCE [REDACTED] IS A LARGE BUILDING UNDER CONSTRUCTION NEAR AND PARALLELING THE NE FENCE LINE.

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LAUNCH COMPLEX C --- IDENTIFICATION ONLY.

LAUNCH COMPLEX D --- NOT COVERED.

LAUNCH COMPLEX E --- A TRIAD CONSISTING OF 3 STRUCTURES IS CONFIRMED BETWEEN THE LAUNCH PADS AND THE INTERFEROMETER. THIS PROBABLE GUIDANCE FACILITY IS SIMILAR TO THE PLUS CONFIGURATION OBSERVED AT THE DEPLOYED TYPE IV LAUNCH SITES. NO OTHER APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D

LAUNCH COMPLEX F --- NO APPARENT CHANGE SINCE [REDACTED]

25X1D

25X1D

LAUNCH COMPLEX G --- IT APPEARS THAT THIS LAUNCH COMPLEX WILL CONSIST OF 2 PARALLEL IDENTICAL, RAIL-SERVED, MIRROR-IMAGE LAUNCH FACILITIES, THE LONG AXES OF WHICH ARE ORIENTED ON AN AZIMUTH OF APPROXIMATELY 035 DEGREES. THE NW HALF OF THE COMPLEX IS IN A MORE ADVANCED STAGE OF CONSTRUCTION AND HAS A MISSILE READY BUILDING 200 X 100 FT WHICH WAS IN A LATE STAGE OF CONSTRUCTION IN [REDACTED] AND NOW APPEARS COMPLETE. APPROXIMATELY 750 FT NE OF THE READY BUILDING THE LAUNCH PAD IS UNDER CONSTRUCTION BUT DETAILS OF ITS CONFIGURATION ARE NOT YET APPARENT. AT A POINT APPROXIMATELY MIDWAY BETWEEN THE READY BUILDING AND THE LAUNCH PAD THERE IS A TOWER-LIKE STRUCTURE AT LEAST 115 FT HIGH. CONSTRUCTION ON THE READY BUILDING IN THE SE HALF WAS BEGUN AFTER [REDACTED] HOWEVER, CONSTRUCTION ACTIVITY WAS EVIDENT AT THE LAUNCH PAD AT THAT TIME. THE ROAD INTO THE LAUNCH AREA HAS BEEN PARTIALLY PAVED IN THE NW HALF AND NOW EXTENDS TO THE MISSILE-READY BUILDING. CONSTRUCTION HAS PROGRESSED INSIGNIFICANTLY IN THE SUPPORT AREA.

25X1D

25X1D

LAUNCH COMPLEX H --- IDENTIFICATION ONLY.

AREA OF UNIDENTIFIED ACTIVITY WEST OF LAUNCH COMPLEX G. --- THE ROAD PREVIOUSLY REPORTED EXTENDING WEST FROM LAUNCH COMPLEX G HAS BEEN SURFACED AND TERMINATES IN A SECURED AREA AT 46-03N 062-47E WHICH CONTAINS AT LEAST 4 STRUCTURES. THE 5 BUILDINGS SOUTH OF THIS ROAD (PREVIOUSLY REPORTED AS AN UNIDENTIFIED FACILITY) NOW APPEAR TO BE REVETTED.

AREA OF UNIDENTIFIED CONSTRUCTION EAST OF LAUNCH COMPLEX G. --- AREA IS LOCATED 2 NM EAST OF THE LAUNCH AREA AT G. IT IS SERVED BY A NEWLY CONSTRUCTED ROAD

TOP SECRET CHESS RUFF

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25X1D AND A RAIL SPUR WHICH WAS UNDER CONSTRUCTION IN
[REDACTED] DETAILS OF CONSTRUCTION ACTIVITY CANNOT BE
DETERMINED. COORDINATES FOR THE AREA ARE
46-04N 062-59E.

25X1D NEW AREA OF UNIDENTIFIED ACTIVITY BETWEEN LAUNCH
COMPLEXES A AND E -- THE AREA IS LOCATED 3 NM WEST OF
THE LAUNCH PAD AT LAUNCH COMPLEX A AT 45-54N 063-16E.
IT IS COMPRISED OF APPROXIMATELY 15 BUILDINGS SERVED
BY RAIL AND ROAD. THERE WAS NO EVIDENCE OF THIS
INSTALLATION ON [REDACTED]

THERE IS NO APPARENT CHANGE IN THE RAIL AND ROAD
CONSTRUCTION BRANCHING NORTH FROM THE CENTRAL SUPPORT
FACILITY.

25X1D CENTRAL SUPPORT FACILITY -- NO APPARENT CHANGE SINCE
[REDACTED]

25X1D SUPPORT BASE -- NO APPARENT CHANGE SINCE [REDACTED]

25X1D [REDACTED]

SAM SITES --

B02 -- IDENTIFICATION ONLY

B08 -- NOT COVERED

B31 -- IDENTIFICATION ONLY

B21 -- IDENTIFICATION ONLY

25X1D B13 -- IDENTIFICATION ONLY

C26 -- NO APPARENT CHANGE SINCE [REDACTED]

25X1D [REDACTED]

(SEE ATTACHMENTS 1-8)

25X1D PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON [REDACTED]

25X1D [REDACTED] ARE AS FOLLOWS --

LAUNCH COMPLEX A

LAUNCH COMPLEX B

25X1D LAUNCH COMPLEX C

LAUNCH COMPLEX E

LAUNCH COMPLEX F

LAUNCH COMPLEX G

25X1D LAUNCH COMPLEX H

NEW AREA WEST OF G

NEW AREA EAST OF G

25X1D NEW AREA WEST OF A

CENTRAL SUPPORT FACILITY

25X1D SUPPORT BASE [REDACTED]

25X1D [REDACTED]

TOP SECRET CHESS RUFF

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25X1A

[REDACTED] SVOBODNY ICBM LAUNCH COMPLEX 5146N 12807E

A NEW LAUNCH AREA (E) HAS BEEN IDENTIFIED AT SVOBODNY AND EXTENSIONS OF THE COMPLEX MAIN ROAD TO THE NORTH AND TO THE WEST INDICATES PLANNING FOR ADDITIONAL SITES.

THE NEW LAUNCH AREA (E) AT 128-00N 051-41E, A TYPE II SITE, IS LOCATED 5 NM SW OF THE COMPLEX SUPPORT FACILITY. IT IS IN A MID-STAGE OF CONSTRUCTION. SITE SUPPORT FACILITIES ARE UNDER CONSTRUCTION ABOUT 5,000 FT SOUTH OF THE LAUNCH SITE. THERE WAS NO EVIDENCE OF THIS SITE IN [REDACTED] THE COMPLEX MAIN ROAD TO LAUNCH AREA E WAS UNDER CONSTRUCTION IN [REDACTED]

LAUNCH AREA D, A TYPE II SITE, IS NOW IN A MID-STAGE OF CONSTRUCTION ALTHOUGH FURTHER ADVANCED THAN E. THE SITE SUPPORT FACILITIES HAVE BEEN ENLARGED SINCE [REDACTED]

THE UNIDENTIFIED AREA OF ACTIVITY BETWEEN LAUNCH AREAS A AND B IS CLOUD COVERED EXCEPT FOR THE HOUSING SEEN ON [REDACTED] THIS HAS BEEN EXPANDED TO APPROXIMATELY 8 BARRACKS, 2 STORAGE AND 4 MISCELLANEOUS BUILDINGS.


THE RAIL-TO-ROAD TRANSFER POINT [REDACTED] AND LAUNCH AREAS A, B, AND C SHOW NO SIGNIFICANT CHANGES. THE COMPLEX SUPPORT FACILITY IS PARTLY CLOUD COVERED. CLOUD COVER PREVENTS STEREO COVERAGE OF MOST OF THE LAUNCH AREAS.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON [REDACTED] ARE AS FOLLOWS
COMPLEX SUPPORT FACILITY
LAUNCH SITE E
LAUNCH SITE D
UNIDENTIFIED ACTIVITY [REDACTED]

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25X1A

 PERM ICBM LAUNCH COMPLEX 5742N 05619E


THREE NEW LAUNCH AREAS (D, E, & F) HAVE BEEN IDENTIFIED. LAUNCH AREA D (57-45N 056-00E), A TYPE II SITE, IS LOCATED ABOUT 10 NM WNW OF THE COMPLEX SUPPORT FACILITY. THE SITE IS DOUBLE-FENCED, IN A MID-STAGE OF CONSTRUCTION, AND HAS THE SAME ORIENTATION AS OTHER TYPE II SITES IN THE COMPLEX. SITE SUPPORT FACILITIES ARE LOCATED ALONG THE ACCESS ROAD ABOUT 2,500 FT SOUTH OF THE LAUNCH SITE. THE ACCESS ROAD TO THE SITE WAS PRESENT IN  BUT THERE WAS NO CONSTRUCTION ACTIVITY AT THE LAUNCH SITE.

25X1D


25X1D

LAUNCH AREA E (57-41N 055-48E) IS A TYPE II LAUNCH SITE LOCATED ABOUT 16 NM WEST OF THE COMPLEX SUPPORT FACILITY. IT IS IN AN EARLY STAGE OF CONSTRUCTION AND SITE ORIENTATION IS THE SAME AS OTHER TYPE II SITES IN THE COMPLEX. SITE SUPPORT FACILITIES ARE LOCATED ALONG THE ACCESS ROAD ABOUT 5,500 FT EAST OF THE SITE. THERE WAS NO INDICATION OF THIS LAUNCH AREA IN 

25X1D


LAUNCH AREA F (57-41N 056-04E) IS A TYPE III SITE LOCATED 8 NM WEST OF THE COMPLEX SUPPORT FACILITY. THIS SITE IS IN AN EARLY STAGE OF CONSTRUCTION. THE EXCAVATION IS APPARENT BUT THE NOTCH IS NOT YET VISIBLE. SITE ORIENTATION IS APPROXIMATELY 100/280. THE SITE SUPPORT FACILITIES ARE LOCATED 2,500 FT NE OF THE LAUNCH SITE AND ON THE OPPOSITE SIDE OF THE COMPLEX MAIN ROAD. THERE WAS NO EVIDENCE OF THIS SITE IN 

25X1D

LAUNCH AREA B IS NOW COMPLETE AND LAUNCH AREA C IS IN A LATE STAGE OF CONSTRUCTION. THE COMPLEX SUPPORT FACILITY AND RAIL-TO-ROAD TRANSFER POINT SHOW NO SIGNIFICANT CHANGES SINCE 

25X1D

25X1D

A LONG NARROW SECURED AREA, LOCATED IMMEDIATELY WEST OF THE RAIL-TO-ROAD TRANSFER POINT APPEARS TO BE SERVED BY THE RAIL LINE FROM THE TRANSFER POINT. ONLY ONE BUILDING IS APPARENT IN THE AREA. THIS FACILITY WAS PRESENT IN  AND NO CHANGE IS APPARENT SINCE THAT TIME.

25X1D

THERE IS AN AREA OF UNIDENTIFIED ACTIVITY (57-46N 056-01E) NORTH OF LAUNCH AREA D, INCLUDING A HOUSING AREA CONTAINING ABOUT 15 BUILDINGS AND A LONG LINEAR

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25X1D SCAR WITHIN A FENCED AREA ABOUT 2 NM FURTHER NORTH.
25X1D ROADS CONNECT IT TO THE COMPLEX AND TO A SMALL TOWN
TO THE NORTH. THIS ACTIVITY WAS PRESENT IN [REDACTED]
[REDACTED] THE BUILDINGS WERE PRESENT [REDACTED]
BUT THE SCARRED AREA WAS CLOUD
COVERED. THIS ACTIVITY IS PROBABLY NOT RELATED
TO THE COMPLEX.

{SEE ATTACHMENTS 9-11}

25X1D PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON
[REDACTED] ARE AS FOLLOWS --
25X1D COMPLEX SUPPORT FACILITY
LAUNCH AREA D
LAUNCH AREA E
LAUNCH AREA F
UNIDENTIFIED ACTIVITY

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] ODOVYANNAYA ICBM LAUNCH COMPLEX 5048N 11550E

A NEW LAUNCH AREA (B) IN AN EARLY STAGE OF
CONSTRUCTION HAS BEEN IDENTIFIED AT 50-56N 115-46E,
APPROXIMATELY 2.8 NM NE OF LAUNCH AREA A. THIS IS A
TYPE III SITE. AT THE PRESENT TIME ONLY AN OVAL-
SHAPED EXCAVATION WITH A U-SHAPED ROAD PATTERN AROUND
IT IS EVIDENT. THE CHARACTERISTIC NOTCH IN ONE SIDE
HAS NOT BEEN EXCAVATED. THE PHOTOGRAPHY DOES NOT
PERMIT INTERPRETATION OF CONSTRUCTION WITHIN THE
EXCAVATION. CONSTRUCTION SUPPORT IS PROVIDED FROM
THE SUPPORT FACILITY NEAR LAUNCH AREA A, SINCE NO
BUILDINGS HAVE BEEN CONSTRUCTED NEAR THE NEW
LAUNCH AREA.

THE CONSTRUCTION STATUS OF LAUNCH AREA A IS
UNDETERMINED SINCE SHADOWS OBSCURE FEATURES WITHIN THE
EXCAVATION. THREE LIGHT-COLORED STRUCTURES ARE ON
THE BANK ABOVE THE EXCAVATION. THESE APPEAR SIMILAR
TO CONSTRUCTION RAMPS OBSERVED AT VERKHNYAYA SALDA
LAUNCH AREA G.

SEVEN NEW BARRACKS/STORAGE BUILDINGS HAVE BEEN ADDED
TO THE SITE SUPPORT FACILITY. TWO LARGE WAREHOUSE-
TYPE BUILDINGS AND A SMALLER STRUCTURE HAVE BEEN ADDED
TO THE RAIL SPUR AREA AT THE COMPLEX SUPPORT FACILITY.
FOUR NEW BARRACKS-TYPE BUILDINGS HAVE BEEN ADDED TO

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THE HOUSING AREA. FOUR OTHER SMALL BUILDINGS HAVE BEEN CONSTRUCTED BETWEEN THE HOUSING AND RAIL SPUR AREAS.

THE RAIL-TO-ROAD TRANSFER POINT HAS NOT BEEN COMPLETED. THE RAILROAD BED HAS BEEN EXTENDED INTO THE AREA PREVIOUSLY IDENTIFIED AS THE LOCATION FOR THE TRANSFER POINT. SCARRING AND CONSTRUCTION ACTIVITY ARE EVIDENT IN THE AREA.

THE COMPLEX MAIN ROAD HAS BEEN IMPROVED BEYOND THE RAIL-TO-ROAD TRANSFER POINT, INTO LAUNCH AREA A, AND HALFWAY TO LAUNCH AREA B.

SEVERAL BUILDINGS OF VARIOUS SIZES HAVE BEEN ADDED TO THE MILITARY AREA NE OF THE COMPLEX SUPPORT FACILITY.

(SEE ATTACHMENT 12)

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON
[REDACTED] ARE AS FOLLOWS --

25X1D

COMPLEX SUPPORT FACILITY

25X1D

TRANSFER POINT

LAUNCH AREA A

25X1D

LAUNCH AREA B

25X1A

[REDACTED] GVARDEYSK MRBM LAUNCH SITE 2 5445N 02109E

SITES 1 AND 2 COULD BE IDENTIFIED BUT NOT INTERPRETED. NO ADDITIONAL SSM ACTIVITY OBSERVED IN THE 25-NM SEARCH AREA. SCATTERED CLOUDS AND SEMIDARKNESS PRECLUDE NEGATION.

25X1D

25X1A


[REDACTED] GUSEV MRBM LAUNCH SITE 1 5441N 02205E

SEARCH AREA IS 90 PERCENT CLOUD COVERED. NO HARDENED IRBM SITE OBSERVED IN CLOUD-FREE AREAS.

25X1D

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25X1A

 KOROSTEN MRBM LAUNCH SITE 1 5051N 02818E

ONLY EASTERN HALF OF SEARCH AREA COVERED BY
PHOTOGRAPHY.
NO HARDENED IRBM SITE OBSERVED IN CLOUD-FREE AREAS.

25X1D

25X1A

 BALTA MRBM LAUNCH SITE 1 4801N 02933E

NO HARDENED SITE OBSERVED IN CLOUD-FREE PORTION OF
THE 25-NM RADIUS SEARCH AREA. WESTERN HALF OF SEARCH
AREA CLOUD COVERED, SCATTERED-TO-HEAVY CLOUDS IN THE
EAST.

25X1D

25X1A

 RAGNIT PROBABLE MRBM LAUNCH SITE 5501N 02211E

SITE AND 80 PERCENT OF SEARCH AREA ARE CLOUD COVERED.
NO NEW HARDENED IRBM SITE OBSERVED IN CLOUD-FREE
AREAS.

25X1D


25X1A

 RISTI MRBM LAUNCH SITE 2 5906N 02406E

NO HARDENED IRBM SITE OBSERVED IN SEARCH AREA WHICH IS
COVERED BY GOOD QUALITY PHOTOGRAPHY.

25X1D

25X1A

 TAURAGE MRBM LAUNCH SITE 3 5505N 02219E

NO HARDENED IRBM SITE OBSERVED. SEARCH AREA
APPROXIMATELY 75 PERCENT CLOUD COVERED.

25X1D

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25X1A

SKRUNDA HARDENED IRBM LAUNCH SITE 5635N 02149E

SITE IS IN A MID-STAGE OF CONSTRUCTION.
THE CENTRAL BUNKER IS VISIBLE, AND CONSTRUCTION
ACTIVITY IS EVIDENT AT THE LOCATION OF THE 2 LAUNCH
SILOS. THERE IS NO CHANGE IN THE BUILDING COUNT AT
THE SUPPORT SITE.

25X1D

25X1A

ZEMAICIU KALVARIJA HARD MRBM/IRBM LAUNCH SITE 5601N 02153E

SITE IS COMPLETE.
NO NEW HARDENED IRBM SITE OBSERVED IN CLOUD-FREE AREAS
WITHIN THE 25-NM RADIUS SEARCH AREA.

25X1D

25X1A

RUDNYA ZLOTINSKAYA HARD MRBM/IRBM LAUNCH SITE 5104N 02807E

IDENTIFICATION ONLY.

25X1D

25X1A

TALSI, SUSPECT SSM AREA 5731N 02221E

NO SSM ACTIVITY OBSERVED WITHIN A 25-NM RADIUS
OF TALSI.

25X1D

25X1A

VAINODE HARDENED IRBM LAUNCH SITE 5628N 02150E

SITE CAN BE CONFIRMED AS HARDENED IRBM LAUNCH SITE IN
AN EARLY STAGE OF CONSTRUCTION.

25X1D

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25X1D



25X1A

RAMOYE IRBM LAUNCH SITE 6426N 03418E

HEAVY CLOUDS AND HAZE PRECLUDE A THOROUGH SEARCH OF THE AREA. THE CONSTRUCTION STATUS OF THE LAUNCH SITE CANNOT BE DETERMINED.

25X1D



25X1A

SARY SHAGAN AMM TEST COMPLEX 4602N 07334E

MOST OF THE COMPLEX IS COVERED BY GENERALLY GOOD-QUALITY PHOTOGRAPHY.

INSTRUMENTATION SITES

NO SIGNIFICANT CHANGES ARE APPARENT AT THE INSTRUMENTATION SITES COVERED EXCEPT FOR WHAT APPEARS TO BE A NEWLY IDENTIFIED 110-FT DOME AT SITE 5. THIS IS THE BEST COVERAGE TO DATE OF THE INTERFEROMETER AT SITE 9. INSTRUMENTATION SITES 7, 13 AND POSSIBLE SITE 14, WERE NOT COVERED. INSTRUMENTATION SITE 10 WAS ALMOST COMPLETELY CLOUD COVERED. INTERPRETATION IS LIMITED BY CLOUDS, CLOUD SHADOW, AND HAZE.

LAUNCH COMPLEXES A & B

25X1D

THERE ARE NO SIGNIFICANT CHANGES AT LAUNCH COMPLEXES A OR B SINCE [REDACTED] LAUNCH COMPLEX A IS ACTIVE WITH THE MAJORITY OF THE LAUNCH POSITIONS AT SITES 3 AND 4 OCCUPIED BY VEHICLES AND/OR EQUIPMENT. SITES 1 AND 2 SHOW A LESSER DEGREE OF ACTIVITY ON THE LAUNCH POSITIONS. ACTIVITY AT SITES 5 AND 6 NOT DISCERNIBLE BECAUSE OF CLOUD SHADOW.

HEN HOUSE ANTENNA

25X1D

DETAILED ANALYSIS OF THE HEN HOUSE ANTENNA IS PRECLUDED BY HAZE. THE ONLY DISCERNIBLE CHANGE IS A SLIM DARK PATTERN ON THE FACE OF THE ANTENNA NEAR THE NORTH END AND EXTENDING FOR A LENGTH OF APPROXIMATELY 150 FT. THE TWO PLUS CONFIGURATIONS OBSERVED UNDER CONSTRUCTION ON [REDACTED] BETWEEN THE HEN HOUSE ANTENNA AND THE RANGE CONTROL BUILDING ARE BARELY DISCERNIBLE.

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AIR STRIP

25X1D THE 16,000 FT PREPARED-EARTH STRIP NEAR THE PRIMARY
AIRFIELD HAS BEEN WIDENED FROM 440 FT TO APPROXIMATELY
1,200 FT SINCE [REDACTED]

25X1D NO SIGNIFICANT CHANGE OBSERVED SINCE [REDACTED] IN
THE REMAINING FACILITIES COVERED AT THE TEST CENTER,
INCLUDING THE MAIN SUPPORT AREA, THE TWO HEN ROOST
ANTENNAS, AND THE PRIMARY AIRFIELD.

SAM TRAINING CENTER

THE FOLLOWING ARE VISIBLE AT THE SAM TRAINING CENTER
APPROXIMATELY 35 NM SSW OF THE TEST CENTER --- 3
LAUNCH SITES WITHIN THE RECTANGULAR AREA, ONE POSSIBLE
LAUNCH SITE IMMEDIATELY ADJACENT TO THE NORTH OF THE
SECURED AREA AND ONE POSSIBLE LAUNCH SITE IMMEDIATELY
ADJACENT TO THE SOUTH OF THE SECURED AREA.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS
ARE AS FOLLOWS ---
LAUNCH COMPLEX A

25X1D LAUNCH COMPLEX B
SAM TRAINING CENTER
HEN HOUSE ANTENNA

25X1D

25X1A

[REDACTED] PERM ARMS PLANT MOTOVILIKHA MOLOTOV 172 5802N 05617E

ARMS PLANT --- NO NEW CONSTRUCTION, MISSILE ACTIVITY,
OR EQUIPMENT COULD BE IDENTIFIED IN PLANT AREA.

TEST AREA --- SECURED ROAD AND RAIL-SERVED TEST AREA
IS LOCATED AT 58-01N 056-34E, 10.5 NM EAST OF PERM IN
A WOODED AREA. THE ROAD-SERVED VERTICAL TEST STAND
MEASURES 55 X 60 FT AND IS 170 FT HIGH. A DRIVE-
THROUGH CHECKOUT BUILDING MEASURING 185 X 100 FT AND
55 FT HIGH IS LOCATED 710 FT SSE OF THE STAND. THE
AREA CONTAINS 3 RAIL SPURS, ONE OF WHICH TERMINATES
AT A POSSIBLE TEST SITE 1,800 FT ENE OF THE TEST
STAND. ALL MEASUREMENTS IN THE TEST AREA ARE
APPROXIMATE.

(SEE ATTACHMENT 13)

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ARE AS
FOLLOWS --

25X1D

TEST AREA,
ARMS PLANT,

25X1D

PHOTOGRAPHIC REFERENCES FOR THE TEST AREA ARE AS
FOLLOWS --

25X1D

25X1A

KRASNOYARSK STATIC TEST STAND 5605N 09327E

25X1D

NO APPARENT CHANGE SINCE

25X1D

25X1A

KUYBYSHEV AIRFRAME PLANT STALIN 1 5313N 05018E

25X1D

NO APPARENT CHANGE SINCE

25X1D

25X1A

KUYBYSHEV AIRFRAME PLANT LENIN 18 5313N 05019E

25X1D

NO APPARENT CHANGE SINCE

25X1D

NPIC/R-105/63

25X1A

OMSK AIRCRAFT PLANT 166 5458N 07326E

25X1D NO APPARENT CHANGE AT PLANT SINCE

25X1D

NO MISSILE ACTIVITY, AIRCRAFT, OR CONSTRUCTION OBSERVED.

25X1D

25X1A

OMSK AIRCRAFT ENGINE PLANT BARANOVA 29 5457N 07326E

25X1D NO APPARENT CHANGE SINCE

25X1D

25X1A

OMSK AREA, POSSIBLE STATIC TEST AREA 5527N 07322E

25X1D NO APPARENT CHANGE SINCE

25X1D

25X1A

UFA AIRCRAFT ENGINE PLANT A-26 5447N 05607E

NO NEW CONSTRUCTION OR MISSILE ACTIVITY OBSERVED IN PLANT AREA. THE POSSIBLE TEST AREA NORTH OF UFA COULD BE IDENTIFIED BUT HAZE AND SMALL SCALE PRECLUDED INTERPRETATION.

25X1D

25X1A

UFA AIRCRAFT ENGINE PLANT B-26 5447N 05604E

NO NEW CONSTRUCTION OR MISSILE ACTIVITY OBSERVED IN PLANT AREA. THE POSSIBLE TEST AREA NORTH OF UFA COULD BE IDENTIFIED BUT HAZE AND SMALL SCALE PRECLUDE INTERPRETATION.

25X1D

NPIC/R-105/63

25X1D

25X1A

KAZAN AIRCRAFT ENGINE PLANT 16 5551N 04907E

25X1D NO APPARENT CHANGE SINCE

25X1D

25X1A

MEDVED SUSPECT SSM AREA 5818N 03031E

NO MISSILE ACTIVITY OBSERVED IN CLOUD-FREE AREAS
WITHIN A 25-NM RADIUS OF MEDVED.

25X1D

25X1A

ZAKOPYTYE, SUSPECT SSM AREA 5225N 03130E

NO MISSILE-RELATED ACTIVITY OBSERVED IN CLOUD-FREE
AREAS WITHIN A 25-NM RADIUS OF ZAKOPYTYE.

25X1D

25X1A

SEVERODVINSK NAVAL BASE AND SHIPYARD 402 6434N 03949E

25X1D NO SIGNIFICANT CHANGE IN FACILITIES SINCE

25X1D BASINS AT COVERED BUILDING WAYS ARE NOT
OCCUPIED.

VESSELS -- ONE POSSIBLE SUBMARINE (IN FLOATING
DRYDOCK) AND APPROXIMATELY 10 SMALL CRAFT.

25X1D

25X1A

VLADIMIR SUBMARINE BASE 4355N 13528E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE

25X1D

VESSELS -- 3 SUBMARINES (CONFIGURATION UNDETERMINED)
ONE PROBABLE SUBMARINE (CONFIGURATION UNDETERMINED)

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AND 2 SMALL AUXILIARIES.

25X1D

25X1A

SVERDLOVSK SUSPECT ABM AREA 5650N 06037E

NO HEN HOUSE OR OTHER ABM-RELATED INSTALLATIONS RESEMBLING THOSE AT SARY SHAGAN OR LENINGRAD, OR NEW ELECTRONIC INSTALLATIONS WHICH MIGHT BE RELATED TO ABM DEPLOYMENT COULD BE IDENTIFIED IN THE VISIBLE PORTIONS OF THE SEARCH AREA WHICH IS 70 PERCENT CLOUD COVERED.

25X1D

25X1A

MOSCOW SUSPECT ABM AREA 5545N 03737E

APPROXIMATELY 60 PERCENT OF THE SEARCH AREA IS CLOUD-COVERED. AREAS TO THE EAST AND SOUTH OF MOSCOW ARE VISIBLE, AND THE FOLLOWING ITEMS WERE OBSERVED.

MOSCOW SA-1 SAM SITE E-24 --- UNIDENTIFIED ACTIVITY IS TAKING PLACE ON THE SE (LEFT FRONT) CORNER OF THE SA-1 LAUNCH SITE. THE ACTIVITY CONSISTS OF A CLEARING WITH A BUILDING FOUNDATION LOCATED THEREIN, TWO PROBABLE STRUCTURES MEASURING 100 X 100 FT EACH WITH AN OBJECT ON TOP, AND AN UNIDENTIFIED OBJECT LOCATED IMMEDIATELY SE OF THE SITE ACCESS ROAD AND IMMEDIATELY BEHIND THE HERRINGBONE. THE BUILDING FOUNDATION IN THE LARGE CLEARING MEASURES APPROXIMATELY 170 X 100 FT. THE PATTERN OF THE BUILDING FOUNDATION AND THE 2 STRUCTURES FORM A TRIANGLE. ONLY THE CLEARING FOR THE BUILDING FOUNDATION WAS PRESENT ON

25X1D

25X1D

MOSCOW SA-1 SAM SITE E-15 --- UNIDENTIFIED ACTIVITY IS TAKING PLACE AT THE SW (LEFT FRONT) CORNER OF THE SA-1 LAUNCH SITE. THE ACTIVITY IS NOT AS ADVANCED AS THAT FOUND AT SA-1 SAM SITE E-24, HOWEVER, THE PHYSICAL LAYOUT OF THE ACTIVITY IS VERY SIMILAR. NO BUILDINGS OR STRUCTURES CAN BE IDENTIFIED AT THIS TIME.

MOSCOW SA-1 SAM SITE C-25 --- UNIDENTIFIED ACTIVITY IS

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25X1D TAKING PLACE NE (RIGHT REAR) OF THE SA-1 LAUNCH SITE. THE ACTIVITY CONSISTS OF A PROBABLE SECURED AREA CONTAINING A SQUARE STRUCTURE. THIS ACTIVITY WAS NOT PRESENT ON [REDACTED]

25X1D AN UNIDENTIFIED AREA IS LOCATED APPROXIMATELY 3.5 NM SE OF MOSCOW SA-1 SAM SITE E-24 AT 56-18-20N 036-32-30E. THE FACILITY IS ROAD AND RAIL-SERVED AND CONTAINS A BUILDING WHICH MEASURES APPROXIMATELY 850 X 300 FT. ROADS SERVING THE LARGE BUILDING HAVE WIDE RADIUS TURNS. ALTHOUGH THE LARGE BUILDING IS NOT RAIL SERVED, A RAIL SPUR TERMINATES AT A RAIL-TO-ROAD TRANSFER POINT WHICH IS LOCATED IMMEDIATELY NW OF THIS LARGE BUILDING. LOCATED SOUTH OF THE LARGE BUILDING IS A ROAD-SERVED PROBABLE BARRACKS/SUPPORT AREA. SECURITY AROUND THE ENTIRE INSTALLATION CANNOT BE DETERMINED. THIS AREA HAS BEEN EXPANDED SINCE [REDACTED] HOWEVER, THE LARGE BUILDING WAS POSSIBLY PRESENT AT THAT TIME.

A PROBABLE INTERFEROMETER HAS BEEN IDENTIFIED APPROXIMATELY 32 NM SE OF MOSCOW AT 55-23-40N 038-20-00E. THE PROBABLE INTERFEROMETER MEASURES 1,000 X 1,000 FT AND IS ORIENTED APPROXIMATELY 0/180 DEGREES AND 90/270 DEGREES. IT IS LOCATED WITHIN A PROBABLY SECURED DIAMOND-SHAPED AREA. A SMALL, PROBABLE SUPPORT AREA IS LOCATED IMMEDIATELY SSW.

25X1D PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON [REDACTED] ARE AS FOLLOWS --

25X1D SA-1 SITE E-24 [REDACTED]

25X1D SA-1 SITE E-15 [REDACTED]

25X1D LARGE BUILDING [REDACTED]

25X1D SA-1 SITE C-25 [REDACTED]

PROBABLE INTERFEROMETER [REDACTED]

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] BRATSK, SUSPECT ABM AREA 5654N 10030E

NO NEW OR UNUSUAL ACTIVITY OBSERVED WITHIN A 50-NM RADIUS OF BRATSK. HOWEVER, INTERPRETATION IS LIMITED BY HAZE, CLOUDS AND SEMIDARKNESS.

25X1D [REDACTED]

TOP SECRET CHESS RUFF

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25X1A

PORKHOV EARLY-WARNING RADAR SITE 5744N 02940E

25X1D NO APPARENT CHANGE SINCE

25X1D

25X1A

ARKHANGELSK POSSIBLE ABM RADAR 6433N 04032E

NO ABM RADAR OBSERVED IN WESTERN PORTION OF SEARCH AREA. ONLY 60 PERCENT OF THE SEARCH AREA IS COVERED BY PHOTOGRAPHY.

25X1D

25X1A

GOMEL POSSIBLE ABM RADAR 5225N 03100E

NO ABM ACTIVITY OBSERVED IN CLOUD-FREE AREAS WITHIN A 25-NM RADIUS OF ABOVE COORDINATES.

25X1D

25X1A

PODPOROZHYE, ABM RADAR SITE 6050N 03412E

LOCATED 5 NM SOUTH OF PODPOROZHYE AT 60-50N 034-12E. SUPPORT AREA CONTAINS 6 LARGE BUILDINGS AND 6 SMALLER MISCELLANEOUS BUILDINGS. CONSTRUCTION DOES NOT APPEAR COMPLETE.

RADAR SITE, LOCATED AT TERMINUS OF SERVICE ROAD, CONTAINS AT LEAST 3 STRUCTURES UNDER CONSTRUCTION ALONG NE SIDE OF ROAD, AND AT LEAST ONE STRUCTURE UNDER CONSTRUCTION ON SW SIDE SERVICE ROAD.

25X1D

TOP SECRET CHESS RUFF

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25X1A

[REDACTED] BOROVICHI EARLY-WARNING RADAR SITE 5826N 03355E

25X1D NO APPARENT CHANGE SINCE [REDACTED]

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] ASTRA KSETRA, POSSIBLE SAM AREA (INDONESIA) 0430S 10515E

NO EVIDENCE OF SAM ACTIVITY IN THIS AREA. HOWEVER,
INTERPRETABILITY OF PHOTOGRAPHY IS LIMITED.

25X1D [REDACTED]

25X1A

AIRFIELDS

[REDACTED] SIAULIAI AIRFIELD 5553N 02323E

25X9 [REDACTED]

25X1D

AIRCRAFT -- 20 LARGE SWEEP-WING AND 7 MEDIUM SWEEP-
WING, APPROXIMATELY 50 UNIDENTIFIED SMALL PROBABLE
FIGHTERS [REDACTED] 21 LARGE SWEEP-WING, 4 MEDIUM
SWEEP-WING AND 32 UNIDENTIFIED SMALL PROBABLE FIGHTER/
25X1D INTERCEPTORS OBSERVED IN CLEAR AREA (FIGHTER AREA 50
PERCENT CLOUD COVERED) [REDACTED]

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] BORZYA NORTHWEST AIRFIELD 5024N 11623E

25X1D NO APPARENT CHANGE SINCE [REDACTED]
HAZE PRECLUDES DETAILED INTERPRETATION OF RUNWAY
SURFACING.
AIRCRAFT -- 7 BADGER.

25X1D [REDACTED]

~~TOP SECRET CHESS RUFF~~

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25X1A

~~TOP SECRET CHESS RUFF~~ BARANOVICHI AIRFIELD 5306N 02603E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE ~~TOP SECRET CHESS RUFF~~

25X1D

25X1D AIRCRAFT -- AT LEAST 12 UNIDENTIFIED SWEEP-WING
SEVEN BLINDER, 26 POSSIBLE BADGER AND
APPROXIMATELY 10 UNIDENTIFIED SMALL AIRCRAFT

25X1D

25X1A

~~TOP SECRET CHESS RUFF~~ SREDNIY AIRFIELD 7930N 09110E

NO RUNWAY OR AIRFIELD FACILITIES OBSERVED.
THREE BARRACKS-TYPE BUILDINGS, 5 SUPPORT BUILDINGS
OBSERVED. AREA IS SNOW COVERED.

25X1D

25X1A

~~TOP SECRET CHESS RUFF~~ ASPIDNOYE AIRFIELD 6921N 16134E

16,500 X 360 FT N/S RUNWAY IS SERVICEABLE.
AIRCRAFT -- NONE OBSERVED.

25X1D

25X1A

~~TOP SECRET CHESS RUFF~~ RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT 5535N 03807E

25X1D NO SIGNIFICANT CHANGE IN FACILITIES SINCE ~~TOP SECRET CHESS RUFF~~

25X1D

AIRCRAFT -- ONE POSSIBLE BOUNDER, 2 PROBABLE BEAR,
8 PROBABLE BADGER AND 26 MEDIUM SWEEP-WING
UNIDENTIFIED AIRCRAFT.

25X1D

~~TOP SECRET CHESS RUFF~~

TOP SECRET CHESS RUFF

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25X1A

SEMPLAK AIRFIELD (INDONESIA) 0632S 10645E

NO MISSILE SITES OBSERVED.

25X1D

ONE POSSIBLE AIRCRAFT OBSERVED.

NO APPARENT CHANGE IN FACILITIES SINCE

25X1D

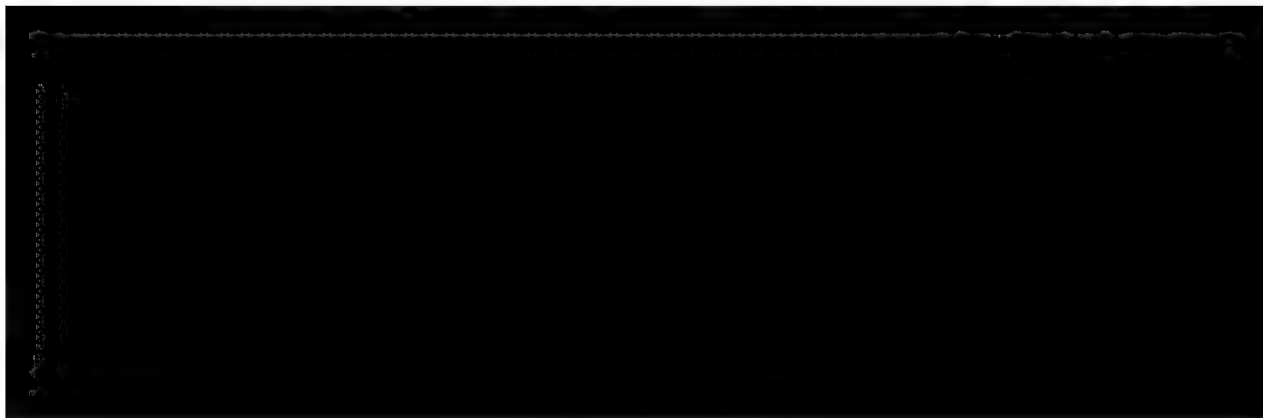
25X2

25X2

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25X2



25X1A

NAVAL ACTIVITY

[REDACTED] VARNA NAVAL BASE & SHIP REPAIR YARD (BULGARIA) 4311N 02754E

FOUR PROBABLE VESSELS OBSERVED. CLOUDS AND CLOUD
SHADOW OBSCURE BASE AND YARD AREAS.

25X1D



25X1A

[REDACTED] OCHAMCHIRE NAVAL BASE 4244N 04125E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]
FIVE SMALL VESSELS BERTHED INSIDE HARBOR. NO
SUBMARINES OBSERVED.

25X1D



25X1A

[REDACTED] BATUMI NAVAL BASE & SHIPYARD DZERZHINSKIY 4139N 04138E

IDENTIFICATION ONLY. OBLIQUITY AND HAZE PRECLUDE
INTERPRETATION.

25X1D



25X1A

[REDACTED] NOVOROSSIIYSK NAVAL BASE 4443N 03746E

THREE LARGE TANKERS AND 9 SMALLER VESSELS BERTHED IN
INNER HARBOR. TEN LARGE TANKERS AND ONE FREIGHTER
ANCHORED BEYOND BREAKWATER. NO SUBMARINES OR
SUBMARINE FACILITIES OBSERVED.

25X1D



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25X1A

 CONSTANTA NAVAL BASE 4409N 02839E

NO NAVAL FACILITIES OBSERVED.
FOUR CARGO SHIPS ARE MOORED ALONGSIDE THE MOLE WHICH
REPORTEDLY CONTAINED THE NAVAL BASE.
PORT OF CONSTANTA CONTAINS A TOTAL OF 8 TANKERS,
18 CARGO AND NUMEROUS SMALL VESSELS.

25X1D

25X1A

 MANGALIA NAVAL BASE (RUMANIA) 4348N 02832E

BASE CONSISTS OF APPROXIMATELY 25 BARRACKS-TYPE
BUILDINGS IN 4 AREAS, 2 ADMINISTRATIVE-TYPE BUILDINGS
AND NUMEROUS SMALL SUPPORT BUILDINGS.
WATERFRONT FACILITIES -- 4 FINGER PIERS, 3 SHORT
PROBABLE POL PIERS AND 3 WHARF AREAS.
VESSELS -- 3 POSSIBLE SMALL NAVAL VESSELS AND 2 SMALL
CARGO VESSELS. NO SUBMARINES OBSERVED.

25X1D

25X1A

 POTI NAVAL BASE & SHIPYARD YELYAVA 201 4209N 04139E

IDENTIFICATION ONLY. OBLIQUITY PRECLUDES
INTERPRETATION.

25X1D

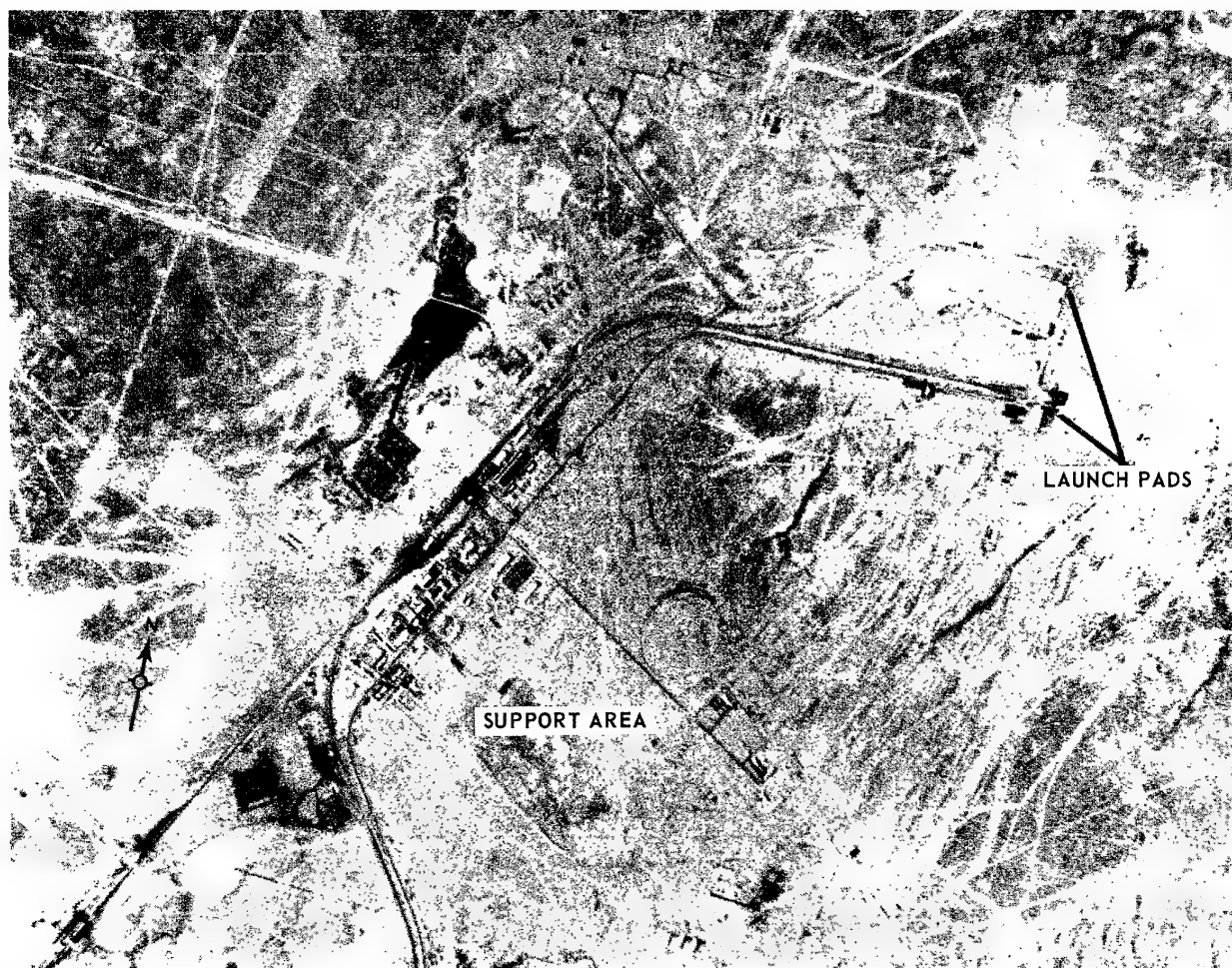
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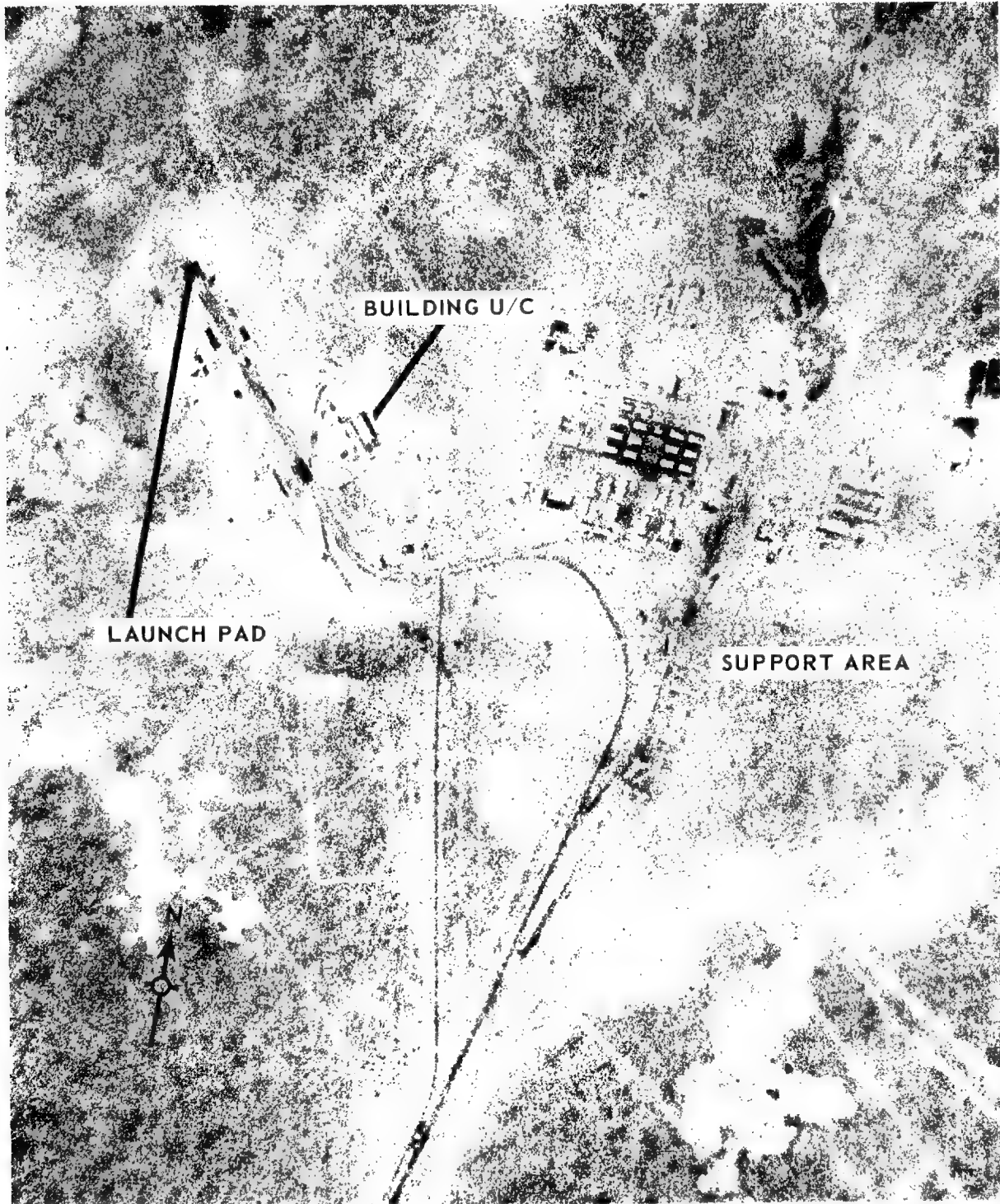
NPIC R-105/63

LAUNCH COMPLEX A, TYURA TAM MISSILE TEST CENTER

NPIC/R-105/63
ATTACHMENT 1

TOP SECRET CHES RUFF

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LAUNCH COMPLEX B, TYURA TAM MISSILE TEST CENTER

NPIC 11-3108 (6/63)

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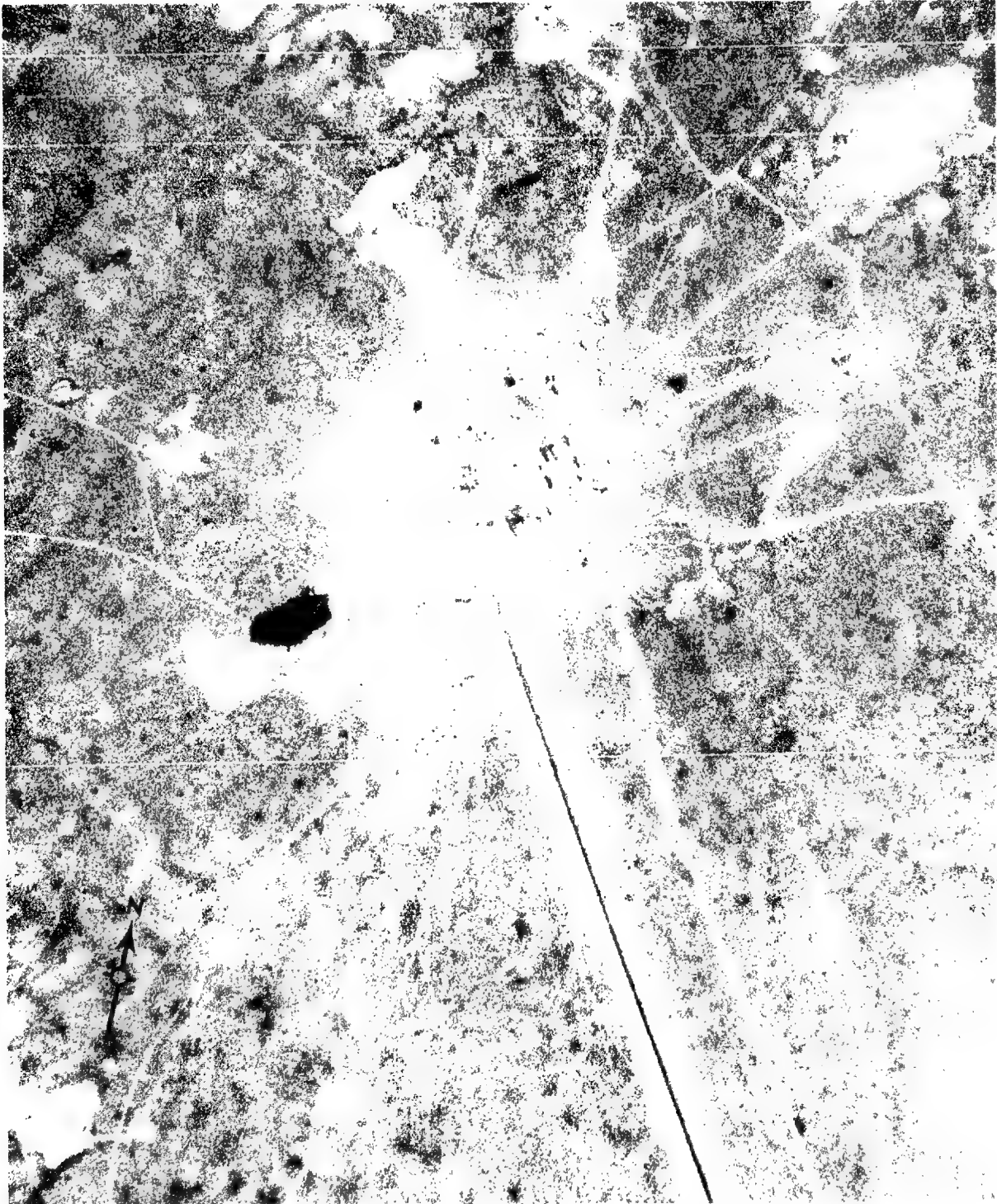
NPIC - 105 63

LAUNCH COMPLEX E, TYURA TAM MISSILE TEST CENTER

TOP SECRET CHES RUFF

NPIC R 105 63
ATTACHMENT 3

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NPIC H-3110 (6/63)

LAUNCH COMPLEX F, TYURA TAM MISSILE TEST CENTER



NPIC H-3111 10/6/63

LAUNCH COMPLEX G, TYURA TAM MISSILE TEST CENTER

25X1B

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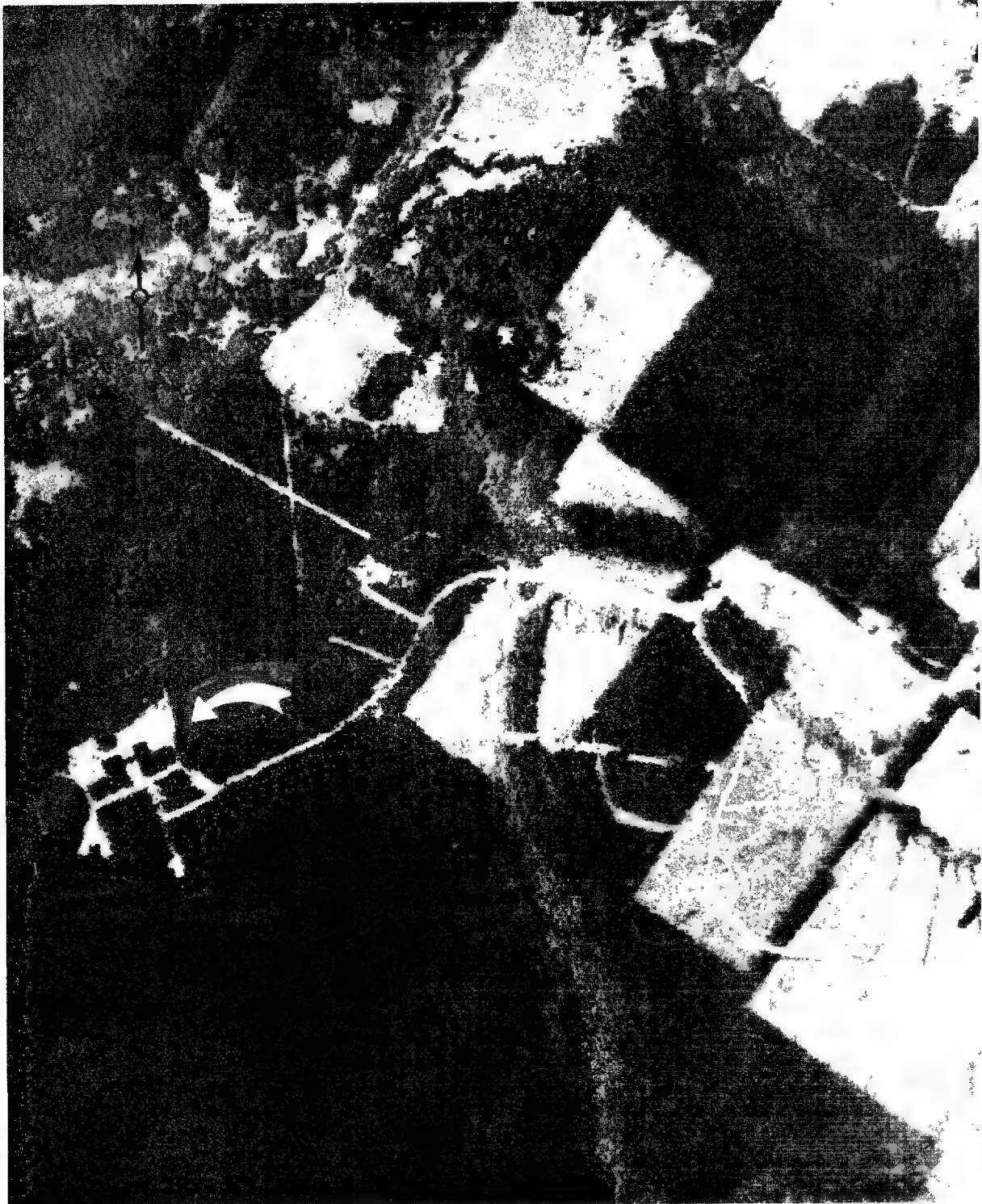
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NEW LAUNCH AREA D (TYPE II), PERM ICBM LAUNCH COMPLEX

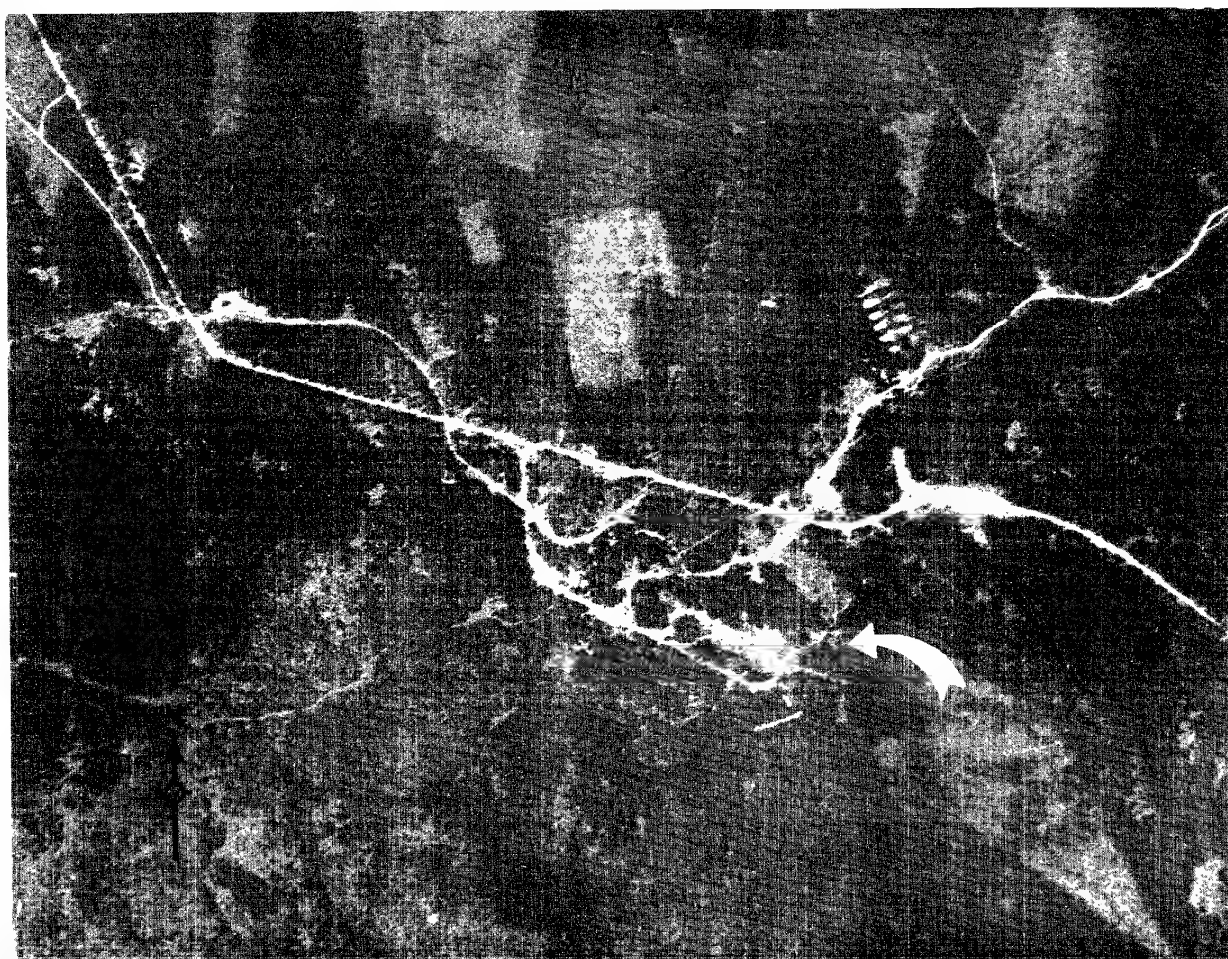
NPIC R 105 63
ATTACHMENT 10



NPIC R 105 63

NEW LAUNCH AREA E (TYPE II), PERM ICBM LAUNCH COMPLEX

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NEW LAUNCH AREA F TYPE I'II, PERM ICBM LAUNCH COMPLEX

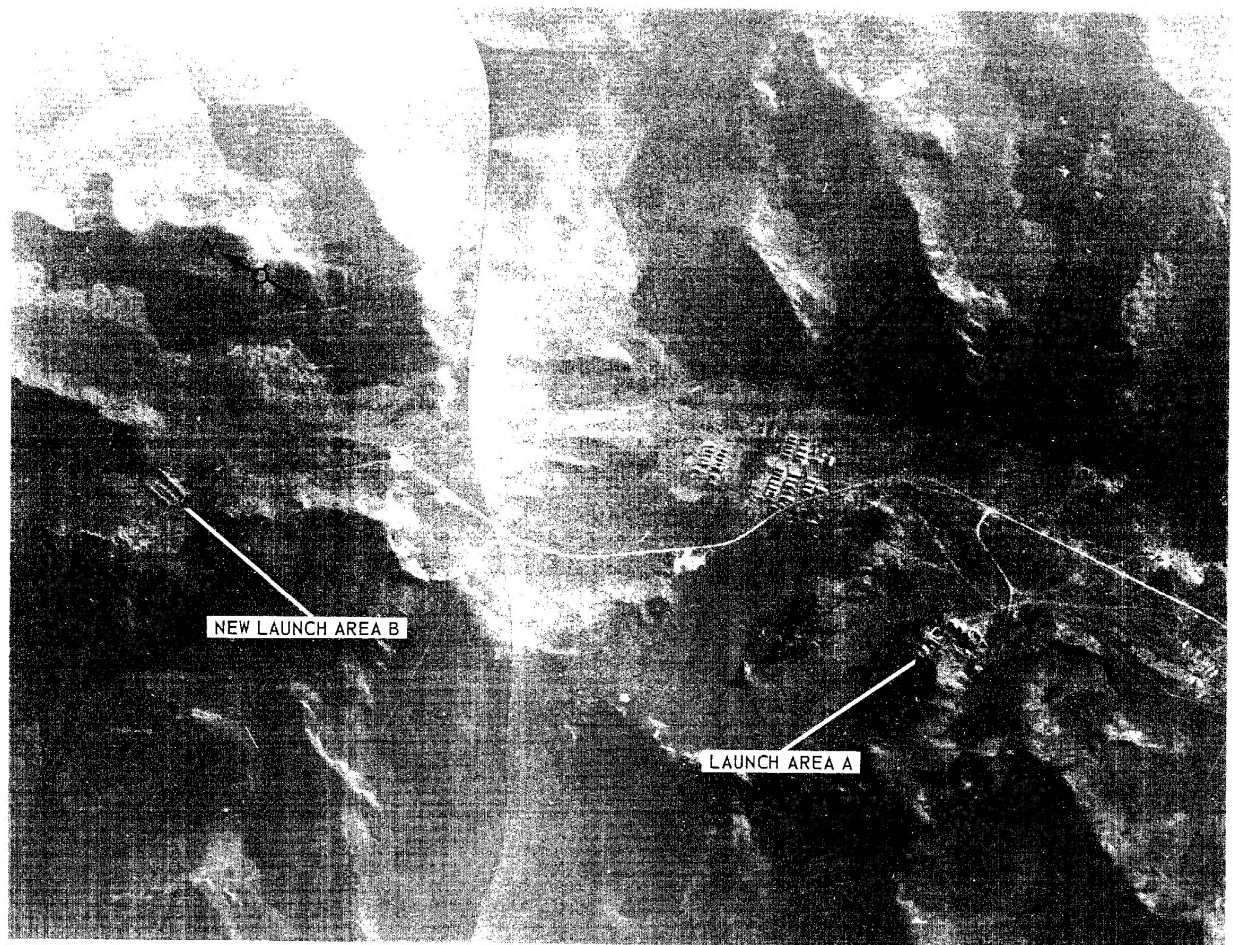
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

REF R 105 73
ATTACHMENT 1

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OLOVYANNAYA ICBM COMPLEX

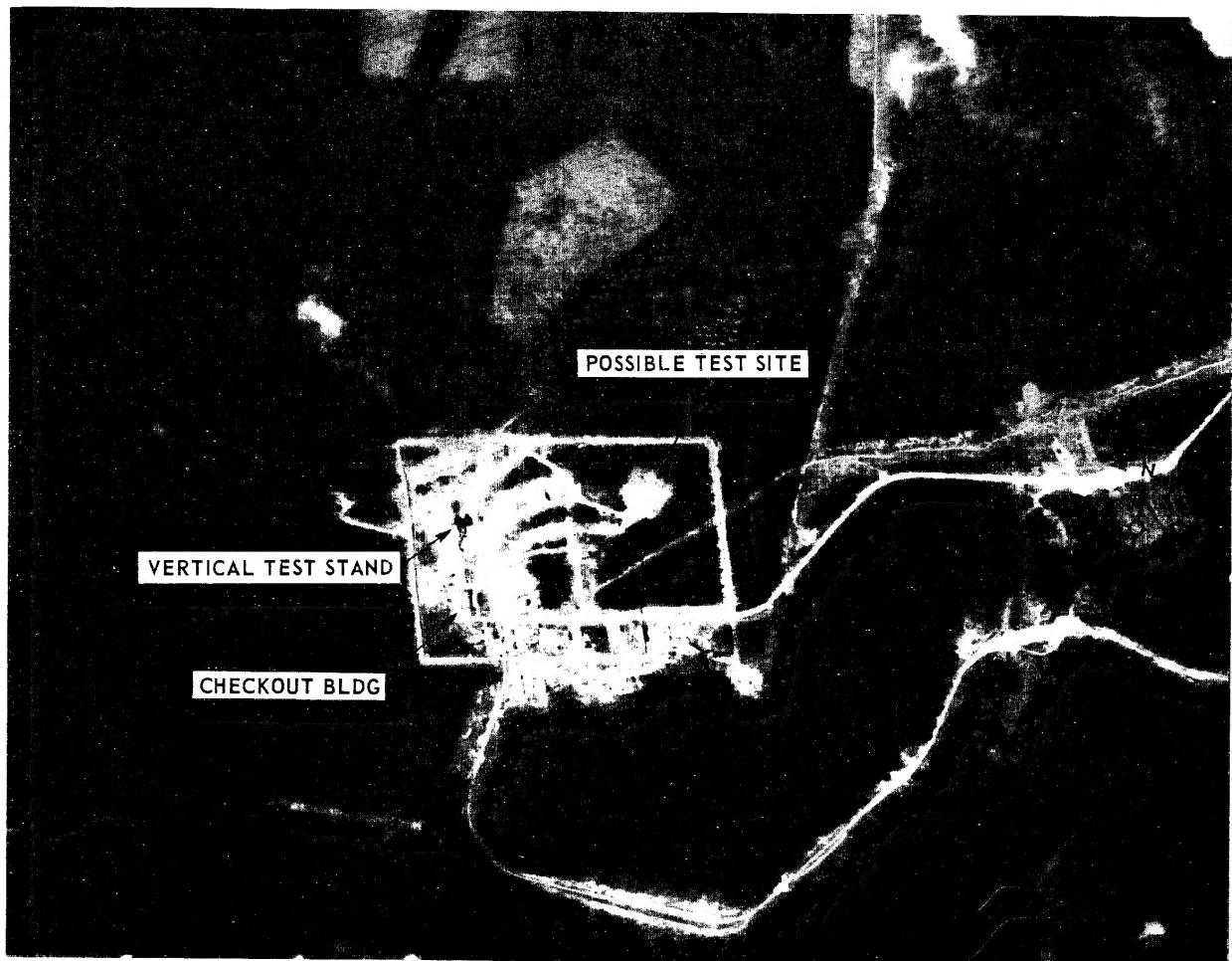
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TOP SECRET CHESS RUFF

NPIC R 105 63
ATTACHMENT 12

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TEST AREA, PERM ARMS PLANT MOTOVILIKHA MOLOTOV 172

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ATTACHMENT 13

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25X6

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~~TOP SECRET~~